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1: Nature. 1992 Jan 30;355(6359):453-5.

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Expression of members of the putative olfactory receptor gene family in mammalian germ cells.

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Parmentier M, Libert F, Schurmans S, Schiffmann S, Lefort A, Eggerickx Ledent C, Mollereau C, Gerard C, Perret J, et al.

IRIBHN, Universite Libre de Bruxelles, Belgium.

A series of genomic and complementary DNA clones encoding new putative members of G protein-coupled receptors were isolated using homology cloning and low-stringency polymerase chain reaction. Among the unidentified receptor ('orphan receptors'), a human genomic clone (HGMP07) was characterized by tl presence of its transcripts in the testis and by its belonging to a large subfamily genes sharing extensive sequence similarities. Sequence comparison demonstrathat this gene subfamily is the human counterpart of the putative rat olfactory receptors cloned recently. Another 48 members of the family were cloned. Northern blotting further demonstrated the presence of olfactory receptor transcripts in germ cells. Our finding suggests that a common receptor gene family encodes olfactory receptors and sperm cell receptors that could be involving chemotaxis during fertilization.

Related Resources

MeSH Terms:

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- Male
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- Multigene Family*
- Olfactory Mucosa/physiology
- Oligodeoxyribonucleotides
- Organ Specificity

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- Species Specificity
- Spermatozoa/physiology*
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- Testis/physiology*
- Transcription, Genetic

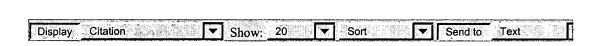
Gene Symbols:

• HGMP07

Substances:

- Oligodeoxyribonucleotides
- RNA, Messenger
- Receptors, Cell Surface
- RNA
- GTP-Binding Proteins

PMID: 1370859 [PubMed - indexed for MEDLINE]



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